

UML-19P-90 19-inch Color LCD Display Monitor (VGA)

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Invented for life



- ▶ Supports up to 1280 x 1024 resolution—1.3 Megapixels
- ▶ Maximum brightness of 300 cd/m²
- ▶ Maximum contrast ratio of 800:1 for excellent color accuracy and consistency
- ▶ Minimum response time of five ms reduces smearing and ghosting
- ▶ 100/240 VAC, 50/60 Hz auto-ranging internal power supply

The Bosch UML-19P-90 is a 19-inch, high-resolution LCD monitor with analog (VGA) and digital (DVI) inputs for use with digital video recorders (DVR) and PC applications. The monitor is equipped with a color liquid crystal display (LCD) flat screen display panel with a horizontal and vertical viewing angle of 160°, providing comfortable, clear viewing whether placed on a desktop, wall mounted, or rack mounted. In addition, the monitor has two (2) internal speakers for tracking audio with the incoming video signal.

Functions

Excellent image quality

The Bosch UML-19P-90 LCD monitor automatically adapts to the input resolution of the incoming video signal (up to 1280 x 1024 pixels or 1.3 Megapixels). The monitors' analog VGA input easily accommodates the widespread use of PCs in today's security surveillance systems. The high contrast ratio (800:1) and high brightness rating (300 cd/m²) offers excellent color accuracy and imaging for easier viewing and interpretation of images. The panel refreshes every

five milliseconds, so you get crisp, clear images with less smearing - and less image "ghosting" in fast-motion video.

Key benefits of LCD monitor

Long-life fluorescent backlights help avoid luminance degradation on the LCD monitor – so it easily maintains its brightness level over time. This is an advantage over aging CRT-type monitors that become progressively dimmer. The consistent brightness also provides a sharp display image, without the constant flickering that you typically see in CRT monitors. This allows you to use the LCD monitor longer without eyestrain or excessive fatigue.

Additional advantages

The Bosch UML-19P-90 LCD monitor also features:

- Low power consumption
- Automatic adaptation to fluctuating electricity loads while protecting your circuitry
- Standard 100 mm (3.9 in.) mounting holes to easily accommodate a range of VESA wall mounts
- User-friendly, on-screen menus and bottom panel controls for adjusting monitor display parameters to your specific preferences

Certifications and approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC standards

Region	Certification
Europe	CE

Technical specifications**Electrical**

Rated Voltage	120/230 VAC, 50/60 Hz
Voltage Range	100-240 VAC
Power at Rated Voltage	40 W operation, 3 W standby
Sync Format	Separator Sync (H, V sync)
LCD Panel	TFT LCD
Screen Size (H x V)	376.0 x 301.0 mm (14.8 x 11.9 in.)
Viewable Picture Area	19 in. (482 mm) measured diagonally
Pixel Pitch: (H x V)	0.294 x 0.294 mm (0.01 x 0.01 in.)
Resolution	Up to 1280 x 1024 pixels
Aspect Ratio	5:4
Display Colors	8-bit interface; 16.7 million colors
Response Time	5 ms
Backlight	Four (4) cold cathode fluorescent tubes, rated life 50,000 hours

LCD Panel Optical Characteristics

Luminance	300 cd/m ² , anti-glare, hard-coating treatment
Contrast Ratio	800:1
Viewing Angle	160°/160°

PC Input

Analog RGB	0.7 Vp-p (0.5–1 Vrms)
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PC Timing Modes

640 x 480	60/72/75 Hz
800 x 600	60/72/75 Hz

1024 x 768	60/70/75 Hz
1280 x 1024	60/75 Hz

Controls**Video Input**

Bottom Panel	Push-buttons
Input	Selects: VGA, DVI
Menu	Selects on-screen display (OSD), up cursor, down cursor/auto adjust, input select, left cursor, right cursor, audio mute
Power	On/Off

On-screen Display

PC Mode	Auto adjust, Screen, Color, Utility, Language, OSD, Audio
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Indicators

LED	Power On (green) Standby (red) Unsupported Mode (green) Power Off (red)
On-screen	VGA, DVI: Check input signal

Connectors

Audio	PC: one (1) 1/8 in. mini phono plug
RGB, DVI	One (1) VGA cable included One (1) DVI-D cable included
Power Input	5.5 mm DC input jack
Power Adapter (included)	Input: 100–240 VAC, 50/60 Hz Output: 12 VDC, 4.16 A

Mechanical

Cabinet Material	ABS plastic
Finish	Black
Mount	Wall mounting compatible with standard bracket, 100 mm (3.9 in.) centers, M4 thread

Dimensions (W x H x D)

Monitor with Base	430 x 428 x 200 mm (16.9 x 16.9 x 7.9 in.)
Monitor Only	430 x 374 x 60 mm (16.9 x 14.7 x 2.4 in.)

Weight

Monitor with Base	5.9 kg (13.1 lb)
Monitor Only	5.1 kg (11.2 lb)

Environmental

Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Humidity	Maximum 90%, non-condensing

Parts Included

One (1) Bosch General Purpose Color LCD Flat Panel Monitor
 One (1) VGA to VGA cable
 One (1) DVI-D to DVI-D cable
 One (1) Audio cable PC-style
 One (1) Power adapter
 Two (2), 3-wire power cords with a grounded plug:
 one (1) with a European/Continental plug type and
 one (1) with a U.S. plug type

Ordering information

UML-19P-90 19-inch LCD Flat Panel Monitor

19-inch (483 mm) color LCD monitor, 1280 X 1024 resolution, VGA, DVI, audio, 120/230 VAC, 50/60 HZ
 Order number **UML-19P-90**

Accessories

UMM-LW-30B Swivel/Tilt Wall Mount

Swivel/Tilt wall mount that supports a flat panel LCD monitor up to 12 kg (26.5 lb) in weight, black
 Order number **UMM-LW-30B**

UMM-LW-20B Fixed Wall Mount

Fixed wall mount that supports a flat panel LCD monitor up to 12 kg (26.5 lb) in weight, black
 Order number **UMM-LW-20B**

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